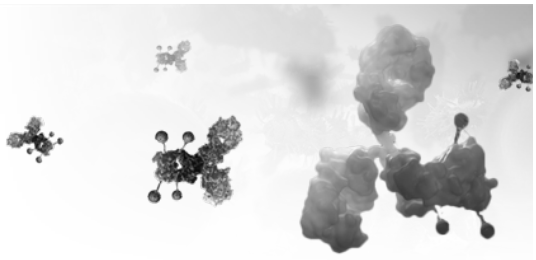

Anti-PIK3C2B (aa 1-110) polyclonal antibody (DPAB-DC2247)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. The PI3-kinase activity of this protein is sensitive to low nanomolar levels of the inhibitor wortmanin. The C2 domain of this protein was shown to bind phospholipids but not Ca2+, which suggests that this enzyme may function in a calcium-independent manner.
Immunogen	PIK3C2B (NP_002637, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. The sequence is MSSTQDNGEHWKSLESVGISRKELAMAEALQMEYDALSRLRHDKEENRAKQNADPSLISW DEPGVDFYSKPAGRRTDLKLLRGLSGSDPTLNYNSLSPQEGPPNHSTSQG
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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GENE INFORMATION

Gene Name	PIK3C2B phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 beta [Homo sapiens (human)]
Official Symbol	PIK3C2B
Synonyms	PIK3C2B; phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 beta; C2-PI3K; phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit beta; PI3K-C2beta; PI3K-C2-beta; PTDINS-3-kinase C2 beta; ptdIns-3-kinase C2 subunit beta; phosphoinositide 3-kinase-C2-beta; phosphoinositide-3-kinase, class 2, beta polypeptide; phosphatidylinositol 3-kinase C2 domain-containing beta polypeptide; phosphatidylinositol-4-phosphate 3-kinase C2 domain-containing subunit beta;
Entrez Gene ID	5287
Protein Refseq	NP_002637
UniProt ID	A2RUF7
Chromosome Location	1q32
Pathway	3-phosphoinositide biosynthesis; Inositol phosphate metabolism; Metabolism of lipids and lipoproteins; Phosphatidylinositol signaling system
Function	1-phosphatidylinositol-3-kinase activity; 1-phosphatidylinositol-4-phosphate 3-kinase activity; ATP binding; lipid kinase activity

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